

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
FY2016**

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	5,647,649	Customers/Gen/Tran	1,799,166	3,848,483
Substation & Transmission Lines	17,858,974	Transmission	0	17,858,974
Communication & Control Equipment	1,023,989	SCADA	10,963	1,013,026
System Operation & Load Dispatch	5,139,936	SCADA/Tran	49,977	5,089,959
Subtotal Western O&M	29,670,548		1,860,106	27,810,442
	100%		6.3%	93.7%
Western General Expenses	7,161,411	% of Subtotal	448,963	6,712,448
Bureau of Reclamation O&M	8,580,500	Generation	8,580,500	0
Purchase Power	2,900,000	Gen & Tran	1,000,000	1,900,000
Capitalized Movable Equipment	946,812	% of Subtotal	59,357	887,455
Multi-Project (SCADA, Mead, Phoenix Service Center)	(2,477,457)	Transmission	(4,109)	(2,473,348)
Bureau of Reclamation Replacements	3,272,000	Generation	3,272,000	0
Principal/Interest Payments - Reclamation	81,829	Generation	81,829	0
Principal/Interest Payments - Western	25,171,430	Transmission	0	25,171,430
Total Annual Gross Expenses	75,307,074		15,298,646	60,008,427
	100%		20.3%	79.7%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	4,400,000	Transmission	0	4,400,000
Losses	4,400,000	Transmission	0	4,400,000
Nonfirm Energy				
Other	0	Generation	0	0
Surplus / Excess	0	Generation	0	0
Ancillary Services				
Generation Supported (e.g. VAR Support, Reserves)	210,000	Generation	210,000	0
Transmission Supported (e.g. Scheduling Service)	0	Transmission	0	0
Miscellaneous				
Facilities Use Charges	1,000,000	Transmission	0	1,000,000
Western Miscellaneous	0	Transmission	0	0
Reclamation Miscellaneous	0	Generation	0	0
Transfers from Other Western Projects	264,131	Transmission	0	264,131
Total Annual Other Revenues	10,274,131		210,000	10,064,131
	100%		2.0%	98.0%
Expenses Less Other Revenues	65,032,943		15,088,646	49,944,296
Interest Credits	0		0	0
Carryover Application	(2,528,557)		(1,094,704)	(1,433,853)
Total Credits & Carryover	(2,528,557)		(1,094,704)	(1,433,853)
Revenue Requirement	62,504,385		13,993,942	48,510,443

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
FY2016**

Cost Allocation Factors & Rate Design Loads

SCADA Points		
	Number	Percentage
Generation	91	1.071%
Transmission	8,409	98.929%
	8,500	100%

Customers		
	Count	Percentage
Transmission	55	60.44%
Generation	36	39.56%
	91	100%

Rate Design Loads		
	Avg CROD kW	Energy MWh
Firm Electric Service - AOF	233,844	1,229,778
Firm Electric Service - Project Use	37,303	195,267
Firm Transmission	2,441,965	0
	2,713,112	1,425,045

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
FY2017**

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	5,678,248	Customers/Gen/Tran	1,853,813	3,824,435
Substation & Transmission Lines	17,751,191	Transmission	0	17,751,191
Communication & Control Equipment	996,105	SCADA	10,664	985,441
System Operation & Load Dispatch	5,940,919	SCADA/Tran	58,008	5,882,911
Subtotal Western O&M	30,366,463		1,922,485	28,443,978
	100%		6.3%	93.7%
Western General Expenses	8,160,656	% of Subtotal	516,647	7,644,009
Bureau of Reclamation O&M	8,920,000	Generation	8,920,000	0
Purchase Power	2,900,000	Gen & Tran	1,000,000	1,900,000
Capitalized Movable Equipment	946,812	% of Subtotal	59,943	886,869
Multi-Project (SCADA, Mead, Phoenix Service Center)	(2,483,324)	Transmission	(4,179)	(2,479,145)
Bureau of Reclamation Replacements	2,950,000	Generation	2,950,000	0
Principal/Interest Payments - Reclamation	82,283	Generation	82,283	0
Principal/Interest Payments - Western	25,650,990	Transmission	0	25,650,990
Total Annual Gross Expenses	77,493,881		15,447,179	62,046,701
	100%		19.9%	80.1%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	4,400,000	Transmission	0	4,400,000
Losses	4,400,000	Transmission	0	4,400,000
Nonfirm Energy				
Other	0	Generation	0	0
Surplus / Excess	0	Generation	0	0
Ancillary Services				
Generation Supported (e.g. VAR Support, Reserves)	210,000	Generation	210,000	0
Transmission Supported (e.g. Scheduling Service)	0	Transmission	0	0
Miscellaneous				
Facilities Use Charges	1,000,000	Transmission	0	1,000,000
Western Miscellaneous	0	Transmission	0	0
Reclamation Miscellaneous	0	Generation	0	0
Transfers from Other Western Projects	257,938	Transmission	0	257,938
Total Annual Other Revenues	10,267,938		210,000	10,057,938
	100%		2.0%	98.0%
Expenses Less Other Revenues	67,225,943		15,237,179	51,988,763
Interest Credits	0		0	0
Carryover Application	(5,034,458)		(1,243,237)	(3,791,221)
Total Credits & Carryover	(5,034,458)		(1,243,237)	(3,791,221)
Revenue Requirement	62,191,486		13,993,942	48,197,543

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
FY2017**

Cost Allocation Factors & Rate Design Loads

SCADA Points		
	Number	Percentage
Generation	91	1.071%
Transmission	8,409	98.929%
	8,500	100%

Customers		
	Count	Percentage
Transmission	55	60.44%
Generation	36	39.56%
	91	100%

Rate Design Loads		
	Avg CROD kW	Energy MWh
Firm Electric Service - AOF	233,844	1,229,778
Firm Electric Service - Project Use	37,303	195,267
Firm Transmission	2,424,465	0
	2,695,612	1,425,045

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
FY2018**

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	5,832,698	Customers/Gen/Tran	1,904,237	3,928,461
Substation & Transmission Lines	16,234,024	Transmission	0	16,234,024
Communication & Control Equipment	1,023,199	SCADA	10,954	1,012,245
System Operation & Load Dispatch	6,102,512	SCADA/Tran	59,585	6,042,927
Subtotal Western O&M	29,192,433		1,974,776	27,217,657
	100%		6.8%	93.2%
Western General Expenses	8,340,992	% of Subtotal	564,242	7,776,750
Bureau of Reclamation O&M	8,826,500	Generation	8,826,500	0
Purchase Power	2,900,000	Gen & Tran	1,000,000	1,900,000
Capitalized Movable Equipment	946,812	% of Subtotal	64,049	882,763
Multi-Project (SCADA, Mead, Phoenix Service Center)	(2,481,639)	Transmission	(4,127)	(2,477,512)
Bureau of Reclamation Replacements	3,030,000	Generation	3,030,000	0
Principal/Interest Payments - Reclamation	83,325	Generation	83,325	0
Principal/Interest Payments - Western	26,388,613	Transmission	0	26,388,613
Total Annual Gross Expenses	77,227,037		15,538,765	61,688,271
	100%		20.1%	79.9%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	4,400,000	Transmission	0	4,400,000
Losses	4,400,000	Transmission	0	4,400,000
Nonfirm Energy				
Other	0	Generation	0	0
Surplus / Excess	0	Generation	0	0
Ancillary Services				
Generation Supported (e.g. VAR Support, Reserves)	210,000	Generation	210,000	0
Transmission Supported (e.g. Scheduling Service)	0	Transmission	0	0
Miscellaneous				
Facilities Use Charges	1,000,000	Transmission	0	1,000,000
Western Miscellaneous	0	Transmission	0	0
Reclamation Miscellaneous	0	Generation	0	0
Transfers from Other Western Projects	252,182	Transmission	0	252,182
Total Annual Other Revenues	10,262,182		210,000	10,052,182
	100%		2.0%	98.0%
Expenses Less Other Revenues	66,964,855		15,328,765	51,636,089
Interest Credits	0		0	0
Carryover Application	(4,974,519)		(1,334,823)	(3,639,696)
Total Credits & Carryover	(4,974,519)		(1,334,823)	(3,639,696)
Revenue Requirement	61,990,336		13,993,942	47,996,393

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
FY2018**

Cost Allocation Factors & Rate Design Loads

SCADA Points		
	Number	Percentage
Generation	91	1.071%
Transmission	8,409	98.929%
	8,500	100%

Customers		
	Count	Percentage
Transmission	55	60.44%
Generation	36	39.56%
	91	100%

Rate Design Loads		
	Avg CROD kW	Energy MWh
Firm Electric Service - AOF	233,844	1,229,778
Firm Electric Service - Project Use	37,303	195,267
Firm Transmission	2,413,215	0
	2,684,362	1,425,045

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
FY2019**

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	5,991,346	Customers/Gen/Tran	1,956,031	4,035,315
Substation & Transmission Lines	16,675,589	Transmission	0	16,675,589
Communication & Control Equipment	1,051,030	SCADA	11,252	1,039,778
System Operation & Load Dispatch	6,268,501	SCADA/Tran	61,205	6,207,296
Subtotal Western O&M	29,986,466		2,028,488	27,957,978
	100%		6.8%	93.2%
Western General Expenses	8,526,233	% of Subtotal	576,772	7,949,461
Bureau of Reclamation O&M	9,320,000	Generation	9,320,000	0
Purchase Power	2,900,000	Gen & Tran	1,000,000	1,900,000
Capitalized Movable Equipment	946,812	% of Subtotal	64,049	882,763
Multi-Project (SCADA, Mead, Phoenix Service Center)	(2,390,979)	Transmission	(3,411)	(2,387,568)
Bureau of Reclamation Replacements	2,635,000	Generation	2,635,000	0
Principal/Interest Payments - Reclamation	83,977	Generation	83,977	0
Principal/Interest Payments - Western	28,414,177	Transmission	0	28,414,177
Total Annual Gross Expenses	80,421,687		15,704,875	64,716,811
	100%		19.5%	80.5%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	4,400,000	Transmission	0	4,400,000
Losses	4,400,000	Transmission	0	4,400,000
Nonfirm Energy				
Other	0	Generation	0	0
Surplus / Excess	0	Generation	0	0
Ancillary Services				
Generation Supported (e.g. VAR Support, Reserves)	210,000	Generation	210,000	0
Transmission Supported (e.g. Scheduling Service)	0	Transmission	0	0
Miscellaneous				
Facilities Use Charges	1,000,000	Transmission	0	1,000,000
Western Miscellaneous	0	Transmission	0	0
Reclamation Miscellaneous	0	Generation	0	0
Transfers from Other Western Projects	263,374	Transmission	0	263,374
Total Annual Other Revenues	10,273,374		210,000	10,063,374
	100%		2.0%	98.0%
Expenses Less Other Revenues	70,148,313		15,494,875	54,653,437
Interest Credits	0		0	0
Carryover Application	(6,369,978)		(1,500,933)	(4,869,044)
Total Credits & Carryover	(6,369,978)		(1,500,933)	(4,869,044)
Revenue Requirement	63,778,336		13,993,942	49,784,393

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
FY2019**

Cost Allocation Factors & Rate Design Loads

SCADA Points		
	Number	Percentage
Generation	91	1.071%
Transmission	8,409	98.929%
	8,500	100%

Customers		
	Count	Percentage
Transmission	55	60.44%
Generation	36	39.56%
	91	100%

Rate Design Loads		
	Avg CROD kW	Energy MWh
Firm Electric Service - AOF	233,844	1,229,778
Firm Electric Service - Project Use	37,303	195,267
Firm Transmission	2,513,215	0
	2,784,362	1,425,045

**PARKER-DAVIS PROJECT
COST APPORTIONMENT STUDY
FY2020**

Annual Expenses	Total	Allocation Factor	Generation	Transmission
Western O&M				
Systemwide Expenses	6,154,309	Customers/Gen/Tran	2,009,233	4,145,076
Substation & Transmission Lines	17,129,166	Transmission	0	17,129,166
Communication & Control Equipment	1,079,618	SCADA	11,558	1,068,060
System Operation & Load Dispatch	6,439,004	SCADA/Tran	62,871	6,376,133
Subtotal Western O&M	30,802,097		2,083,662	28,718,435
	100%		6.8%	93.2%
Western General Expenses	8,716,512	% of Subtotal	589,644	8,126,868
Bureau of Reclamation O&M	9,293,000	Generation	9,293,000	0
Purchase Power	2,900,000	Gen & Tran	1,000,000	1,900,000
Capitalized Movable Equipment	946,812	% of Subtotal	64,049	882,763
Multi-Project (SCADA, Mead, Phoenix Service Center)	(2,097,058)	Transmission	(3,109)	(2,093,949)
Bureau of Reclamation Replacements	1,763,000	Generation	1,763,000	0
Principal/Interest Payments - Reclamation	84,723	Generation	84,723	0
Principal/Interest Payments - Western	29,281,254	Transmission	0	29,281,254
Total Annual Gross Expenses	81,690,341		14,874,969	66,815,371
	100%		18.2%	81.8%
Other Revenues				
Transmission				
Nonfirm/Short-Term Firm (OASIS)	4,725,534	Transmission	0	4,725,534
Losses	4,725,534	Transmission	0	4,725,534
Nonfirm Energy				
Other	0	Generation	0	0
Surplus / Excess	0	Generation	0	0
Ancillary Services				
Generation Supported (e.g. VAR Support, Reserves)	210,000	Generation	210,000	0
Transmission Supported (e.g. Scheduling Service)	0	Transmission	0	0
Miscellaneous				
Facilities Use Charges	1,000,000	Transmission	0	1,000,000
Western Miscellaneous	0	Transmission	0	0
Reclamation Miscellaneous	0	Generation	0	0
Transfers from Other Western Projects	263,374	Transmission	0	263,374
Total Annual Other Revenues	10,924,442		210,000	10,714,442
	100%		1.9%	98.1%
Expenses Less Other Revenues	70,765,899		14,664,969	56,100,929
Interest Credits	0		0	0
Carryover Application	(7,371,161)		(671,027)	(6,700,134)
Total Credits & Carryover	(7,371,161)		(671,027)	(6,700,134)
Revenue Requirement	63,394,737		13,993,942	49,400,795

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COST APPORTIONMENT STUDY
FY2020**

Cost Allocation Factors & Rate Design Loads

SCADA Points		
	Number	Percentage
Generation	91	1.071%
Transmission	8,409	98.929%
	8,500	100%

Customers		
	Count	Percentage
Transmission	55	60.44%
Generation	36	39.56%
	91	100%

Rate Design Loads		
	Avg CROD kW	Energy MWh
Firm Electric Service - AOF	233,844	1,229,778
Firm Electric Service - Project Use	37,303	195,267
Firm Transmission	2,491,761	0
	2,762,908	1,425,045